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Transportation Emergency Preparedness Program (TEPP)

#### **Model Needs Assessment**



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(Self-Assessment Documents)

#### **FORWARD**

The Model Needs Assessment document was developed by the Department of Energy for the Transportation Emergency Preparedness Program (TEPP) as a tool to assist State, Tribal and Local officials in determining emergency responder readiness. Upon implementation of this document, the authority having jurisdiction will be conducting a self-assessment to determine responder readiness for response to a transportation incident involving radio-active materials. As the user of this document works through the assessment questions, the jurisdiction will determine strengths and identify possible improvement areas. To support the authorities assessment and recommendations for improvements, this document includes descriptions of additional TEPP planning and training tools. These tools have been developed to assist State, Tribal and Local officials in correcting identified improvement areas. Appendix A includes a listing of TEPP planning and training tools.

#### A. INTRODUCTION

A typical introduction would describe the reason for conducting the assessment, what services are being assessed, and identify a recommended plan for improvement.

This Needs Assessment is being conducted as part of the TEPP planning process. This assessment will determine State, Tribal or Local current readiness and capabilities (planning and training) for dealing with a transportation incident involving radiological materials. This assessment provides an evaluation of the various functions of emergency response organizations.

Upon completion of the self-assessment, the assessment authority should recognize strengths and identify improvement areas. A written report should identify the method for improving responder skills/capabilities. This should include a description of the need for the development of specific emergency response plans/procedures. To validate the developed plans/procedures or to evaluate current responder readiness, a series of training drills or an exercise with applicable emergency response organizations should be conducted. These drills should be conducted to allow participants the opportunity to demonstrate a thorough knowledge and understanding of response needs for a transportation incident involving radioactive materials.

The integration of planning and training resources into the existing emergency management system is an objective of the TEPP. Through participation and use of TEPP products, officials will strengthen their emergency preparedness and response capabilities. A typical drill effort will include participation from the following emergency service organizations (including both career and volunteer responders): Fire Services, Emergency Medical Services, Hazardous Materials Teams, Emergency Management and Law Enforcement. In addition to State, Tribal or Local agencies, the extent of play for drills could also include, U.S. Department of Energy Regions.



# Model Needs Assessment (Self-Assessment Documents)



The assessment document is divided into six sections. These six sections are Law Enforcement, Fire, Emergency Medical Services, Hazardous Materials, Emergency Communication Center and Emergency Management Services. It is recommended that the assessment be conducted at various State, Tribal or Local facilities. Telephone interviews are also an option to expedite the assessment process.

option to expedite the assessment process.				
List participants from each organization interviewed during your assessment.				
	_			
	_			
	_			
	_			
	_			
	_			
	_			
	_			





(Self-Assessment Documents)

#### B. ASSESSMENT ELEMENTS

	<b>1. Emergency Management Planning Procedures and Capabilities</b> Does the State, Tribal, or Local organization have an Emergency Plan?					
<b>A</b> 2	☐ Yes ☐ No ☐ Partial ☐ Discussion					
	Are radioactive materials used or shipped w					
	☐ Yes ☐ No ☐ Partial  Discussion					
	Define uses:					
	Medical	Manufacturing				
	Research					
	Waste	Spent Fuel				
	Does the Emergency Plan address a response to a transportation incident involving ractive materials?					
7 <u>d</u>	☐ Yes ☐ No ☐ Partial  Discussion					
ado lnemuxade	Does the State, Tribal, or Local organization want an example of a Model Emergency Plan Annex that identifies standard content guide for transportation emergency preparedness (TEPP Planning Tool)?					
	☐ Yes ☐ No ☐ Partial  Discussion					
	Has the State, Tribal or Local organization conducted a hazardous materials drill within the past 12 months?					
<b>=</b> 0	☐ Yes ☐ No ☐ Partial  Discussion					
	Did this drill involve a radioactive material?					
74	□ Yes □ No □ Partial					
	Discussion					
ERGYY	When was the last date State, Tribal or Local responders conducted a drill or respondent involving radioactive materials?					
30	Record Date					
2. Emergency Communications Center Procedures and Cap Have Emergency Communication Specialists (ECS) been trained in the use of American Emergency Response Guidebook?						
	☐ Yes ☐ No ☐ Partial  Discussion					

(Self-Assessment Docum

(EPP)	planning tools
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ents)	

Identify the methods the ECS can contact the following agencies:

Agency	<b>Telephone</b>	<u>Cellular</u>	<u>Radio</u>	<u>FAX</u>
County Environmental Official				
State Nuclear Safety Official				. <u>————</u>
State Environmental Official				
Hazardous Materials Team				
Incident Command Post (Fire)				
Incident Command Post (EMS)				
Incident Command Post (LE)				
County Environmental Official				
State Nuclear Safety Official				
State Environmental Official				
Does the Emergency Communication capabili  Yes No Partial Discussion	ties with the ag	gencies listed	in the previou	
3. Hazardous Materials 1 Does the County have a Hazardo  ☐ Yes ☐ No ☐ Partial Discussion	ous Materials Te	eam?	-	
Has the Hazardous Materials Tea tion 540-G90-003?	m completed a	self-evaluation	on as outlined l	oy EPA Regula-
☐ Yes ☐ No ☐ Partial Discussion				
Has the Hazardous Materials Tea	m been trained	d to the 1910.12	20 Technician l	Level?
☐ Yes ☐ No ☐ Partial  Discussion				
Has the Hazardous Materials Team dents/releases?	m been trained	for response	to radiological	materials inci-
☐ Yes ☐ No ☐ Partial Discussion				
Has the Hazardous Materials Tea involving radiological materials?		d for respons	e to transport	ation incidents
☐ Yes ☐ No ☐ Partial Discussion				

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# Model Needs Assessment

Are hazardous material response services available 24 hours a day?  ☐ Yes ☐ No ☐ Partial
Discussion  Do hazardous materials response organizations utilize an incident scene accountability
system?
□ Yes □ No □ Partial Discussion
Are mutual aid agreements developed to support hazardous materials incidents?
☐ Yes ☐ No ☐ Partial Discussion
Has the hazardous materials mutual aid agreement been exercised/practiced in the past year?
□ Yes □ No □ Partial Discussion
Does the Hazardous Materials Team have radiological instrumentation in its equipment inventory?
☐ Yes ☐ No ☐ Partial Discussion
If yes, identify number of instruments, model and manufacture.
Is the monitoring equipment calibration current?
· □ Yes □ No □ Partial
Discussion
Is there a program to routinely test and maintain monitoring equipment calibration?
□ Yes □ No □ Partial Discussion
Has the Hazardous Materials Team been trained on the use of each type radiation instrument and is a program in place to maintain/demonstrate proficiency?
☐ Yes ☐ No ☐ Partial  Discussion





		laterials Team developed response procedures that include Site Safety Exposure Guidelines?	
		□ Partial	
		authority want a copy of a model hazardous materials response pro- a Site Safety Plan and Radiation Exposure Guidelines (TEPP Planning	
		□ Partial	
	ergency i	e Organization Procedures and Capabilities response vehicles equipped with the latest copy of the Emergency k?	
	_	□ Partial v	朝
Have respon	nse orgar	nizations been trained in the Incident Command System?	
		□ Partial	
Do response	e organiz	ation utilize an incident command procedure/checklist?	7.0
		□ Partial	
Have respon	nse orgar	nizations been trained to the OSHA 1910.120 Operations Level?	
		□ Partial	2
Have responding radioact		nizations been trained for response to transportation incidents involverials?	0
□ Yes Discussi	_	□ Partial	
Do fire resp ing radiolog	_	anizations have SOPs for response to transportation incidents involverials?	
		□ Partial	C Y
		t agency want a copy of a model response procedure for transportang radioactive materials (TEPP Planning Tool)?	¥G
□ Yes Discussi		□ Partial	2
			5 129



	Do fire response organizations utilize an accident scene accountability system?				
	□ Yes □ No □ Partial Discussion				
$\sim$	Do fire response organizations operate and maintain radiological monitoring equipment as part of its equipment inventory (not required)?				
	□ Yes □ No □ Partial Discussion				
•	If yes, identify number of instruments, model and manufacture.				
JO					
	Is the monitoring equipment calibration current?				
70	□ Yes □ No □ Partial Discussion				
<b>1</b>	Is there a program to routinely test and maintain monitoring equipment calibration?				
MA	☐ Yes ☐ No ☐ Partial Discussion				
O LNEWLEVED	Have fire department responders been trained on the use of each type radiation instrument and is a program in place to maintain/demonstrate proficiency?				
	□ Yes □ No □ Partial Discussion				
8	5. Law Enforcement Response Organization Procedures and Capabilities				
<b>ENERGY</b>	Are all emergency response vehicles equipped with the latest copy of the Emergency Response Guidebook?				
	□ Yes □ No □ Partial Discussion				
N N	Have response organizations been trained in the Incident Command System?				
Y	☐ Yes ☐ No ☐ Partial Discussion				
MENTOS	Do response organizations utilize an incident command procedure/checklist?				
	· □ Yes □ No □ Partial Discussion				



Do law enforcement response organizations utilize an incident scene accountability System?	
□ Yes □ No □ Partial Discussion	
Have response organizations been trained to the OSHA 1910.120 Awareness Level?	R
□ Yes □ No □ Partial Discussion	
Have response organizations been trained for response to transportation incidents involving radioactive materials?	
□ Yes □ No □ Partial Discussion	
Do law enforcement response organizations operate and maintain radiological monitoring equipment as part of its equipment inventory?	
□ Yes □ No □ Partial	911
Discussion	
If yes, identify number of instruments, model and manufacture.	PARTMEN
Is the monitoring equipment calibration current?	
□ Yes □ No □ Partial Discussion	
Is there a program to routinely test and maintain monitoring equipment calibration?  ☐ Yes ☐ No ☐ Partial  ☐ Discussion	20 10 10
Have Law Enforcement responders been trained on the use of each type radiation instrument and is a program in place to maintain/demonstrate proficiency?	ERG
□ Yes □ No □ Partial Discussion	G XX
6. Emergency Medical Services and Care Facilities Procedures and Capabilities	
Have response organizations been trained in the Incident Command System?	2
□ Yes □ No □ Partial Discussion	



	Do response organizations utilize an incident command procedure/checklist?  □ Yes □ No □ Partial  Discussion
\$	Do emergency medical response organizations have SOPs for treatment and transportation of a potentially contaminated patient?  □ Yes □ No □ Partial  Discussion
	Does the assessment agency want a copy of a model procedure for the handling and packaging of a potentially contaminated patient (TEPP Planning Tool)?  □ Yes □ No □ Partial  Discussion
J	Do emergency medical service organizations utilize an incident scene accountability system?  □ Yes □ No □ Partial  Discussion
CSIN 본 M. 스스 V이탈 U	Discussion  Do emergency medical service response organizations operate and maintain radiological monitoring equipment as part of its equipment inventory?  □ Yes □ No □ Partial  Discussion
	Is the monitoring equipment calibration current?  ☐ Yes ☐ No ☐ Partial  Discussion
	Is there a program to routinely test and maintain monitoring equipment calibration?  ☐ Yes ☐ No ☐ Partial  ☐ Discussion
	Have emergency medical service responders been trained on the use of each type radiation instrument and is a program in place to maintain/demonstrate proficiency?  ☐ Yes ☐ No ☐ Partial
	Discussion  Have hospitals with treatment/care capabilities for radiologically contaminated patients been identified?
×	☐ Yes ☐ No ☐ Partial  Discussion  Has the hospital staff been trained in the handling, decontamination, and treatment of
	radiologically contaminated patients?  □ Yes □ No □ Partial  Discussion

(Self-Assessment Documents)



Has there b	een a dril	l with the local/regional hospital in the past 12 months?
□ Yes	□ No	□ Partial
Discussi	ion	
Has a drill be	een cond	ucted utilizing a radiolocically contaminated patient in past 12 months?
□ Yes	□ No	□ Partial
Discussi	ion	

#### C. TRAINING ELEMENT

When conducting this section of the assessment, consider all response agencies (law enforcement, fire, hazardous materials, emergency medical and emergency management). This section will assist the assessment agency in determining training topics that are not being provided in existing training programs. Upon completion of this section, topics not being presented in existing training programs will be identified. The assessment agency can then decide and provide recommendations on which DOE developed training materials can be used to augment existing training. The format for this Section (checklist) corresponds with the objectives outlined in the Modular Emergency Response Radiological Transportation Training (MERRTT).

#### **Radiological Basics**

Upon completion of this module, you will have a better understanding of the basic structure of an atom and the fundamentals of radiation.

	LE	FD	EMS	НМТ	EMA
Identify the basic components of an atom.					
Define ionizing radiation, radioactivity, radioactive material, and radioactive contamination.					
Distinguish between radiation and contamination.					
Identify common sources of radiation and radioactive material.					

#### **Biological Effects**

The purpose of this module is to increase your understanding of how ionizing radiation affects the human body. This knowledge will help you, as a responder, function with confidence during incidents that involve radioactive material.

	LE	FD	EMS	HMT	EMA
Define acute and chronic radiation doses.					
Identify ways that radioactive material can enter the body.					
Identify the potential health effects of radiation exposure.					







(Self-Assessment Documents)

#### **Hazard Recognition**

The purpose of this module is to increase your understanding of package markings, warning labels and placards used for packaging and shipping radioactive material.

Your ability, as a responder, to recognize and interpret package marking, labeling, and vehicle placarding will help you function safely during incidents involving radioactive material.

	LE	FD	EMS	НМТ	EMA
Identify markings on packages used to transport radioactive material.					
Identify labels on packages/containers used to indicate the presence, or absence, of radioactive material.					
Identify vehicle placards used on radioactive material shipments.					

#### **Initial Response Actions**

The purpose of this module is to provide a basic understanding of the initial actions you should take when arriving at a scene of a radioactive material transportation incident.

Your ability to effectively identify the hazard using the ERG will enhance your efficiency in responding to the incident.

	LE	FD	EMS	HMT	EMA
Identify the actions required by "Safety, Isolation, and Notification."					
Identify the importance of shipping papers.					
Locate, in the U.S. Department of Transportation Emergency Response Guidebook (ERG), the response guide for radioactive material by using one or all of the following: UN identification number, material name, or shipment placards.					



(Self-Assessment Documents)



#### **Radioactive Material Shipping Packages**

The purpose of this module is to provide you with a basic understanding of the types of packages used to transport radioactive material and the potential hazard posed by the material contained within these packages. This information will help increase your knowledge of apporpriate responses to a radiological transportation incident.

	LE	FD	EMS	НМТ	EMA
Identify typical packages used in the transport of radioactive material.					
List examples of radioactive material that are shipped in various shipping packages.					
Identify the risks associated with the various shipping packages.					
Identify the testing methods for Type A and B Packages.					

#### **Patient Handling**

The purpose of this module is to help you assess the potential risks in handling contaminated patients at a radioactive material transportation incident. This module will aid you in preparing patients for transport from the incident scene to the hospital.

	LE	FD	EMS	НМТ	EMA
Identify the risks to response personnel when rescuing injured persons at a radioactive material transportation incident.					
Identify the importance of gross decontamination for radiologically contaminated patients.					
Identify methods for preparing radiologically contaminated patients for transport to the hospital.					







# Model Needs Assessment (Self-Assessment Documents)

#### **Information Resources**

The purpose of this module is to increase your awareness of the resources available to you for use when responding to an incident involving radioactive material.

	LE	FD	EMS	HMT	EMA
Identify information sources that can provide responders with details about a radioactive material shipment.					
Identify the information contained on shipping papers used for transporting radioactive material.					
Identify state and federal resources that provide assistance to on-scene responders.					

#### Scene and Incident Control

This purpose of this module is to help you understand the importance of donning the proper personal protective equipment, controlling contamination, and maintaining crowd control. The information in this module will help you protect yourself and others from radioactive contamination at the scene of a transportation incident involving radioactive material.

	LE	FD	EMS	НМТ	EMA
Identify the basic steps for identification and hazard assessment at the scene.					
Identify ways to protect on-scene personnel from radiological contamination at the scene of a transportation incident involving radioactive material.					
Identify the basic protection measures of time, distance, and shielding.					
Identify ways to control the spread of contamination while taking defensive measures to limit impacts of an incident involving radioactive material.					
Identify factors to consider when implementing public protective action and crowd control at the scene of a transportation incident involving radioactive material.					



(Self-Assessment Documents)



#### **Radiological Terminology and Units**

The purpose of this module is to increase your knowledge of ionizing radiation. Knowing the terminology and measuring units associated with radioactive material will help you communicate more effectively with assisting agencies while responding to an incident involving radioactive material.

	LE	FD	EMS	НМТ	EMA
Identify four basic types of ionizing radiation.					
Identify the terms used to measure radiation and radioactivity.					
Identify terminology and acronyms associated with shipments of radioactive material.					
Define transuranic waste, low-level waste, high-level waste, and mixed waste.					
Identify commonly used Proper Shipping Names for radioactive material.					

#### **Radiological Survey Instruments and Dosimetry Devices**

The purpose of this module is to provide you with a general awareness and understanding of radiological survey instruments and how they can be used to survey for radiation exposure and contamination. Proper use of radiological survey instruments will provide you with more information on the hazards present at the scene.

	LE	FD	EMS	НМТ	EMA
Identify two categories of radiological survey instruments.					
State the proper application and limitation of contamination survey instruments.					
State the proper application and limitation of radiation exposure survey instruments.					
Identify commonly used dosimetry devices.					







(Self-Assessment Documents)

#### **Assessing Package Integrity**

The purpose of this module is to increase your understanding of the information contained on warning labels and the radiation levels associated with radioactive material packages. Being able to correctly read the warning labels can help you assess the radioactive material package integrity, which in turn will improve your ability to respond safely.

	LE	FD	EMS	HMT	EMA
Identify radiation levels associated with the various radiation-warning labels.					
Identify the importance of the transport index in determining package integrity.					
Identify the maximum radiation levels expected on shipping packages and/or transport vehicle surfaces.					

#### **Tactics and Strategies**

The purpose of this module is to increase your understanding of some basic tactics and strategies that can be used at the scene of an incident involving radioactive material. Once you understand these tactics and strategies, you will help control the spread of radiological contamination and minimize personnel exposure to ionizing radiation.

	LE	FD	EMS	HMT	EMA
Describe reasons for and methods of establishing hot, warm, and cold zones at the scene of a transportation incident involving radioactive material.					
Describe methods for implementing radiological controls at the scene of a transportation incident involving radioactive material.					
Describe considerations for selecting PPE for responders working at the scene of a transportation incident involving radioactive material.					



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tools

# Model Needs Assessment

(Self-Assessment Documents)

#### **Decontamination Disposal and Documentation**

The purpose of this module is to inform you of methods used to decontaminate personnel and equipment. This information will help you prevent further spread of radiological contamination and minimize the amount of radioactive waste generated when performing response activities at the scene of a transportation incident involving radioactive material.

	LE	FD	EMS	HMT	EMA
Identify how personnel, personal protective equipment, apparatus, and tools become contaminated with radioactive material.					
State the purpose of radioactive decontamination.					
Identify field decontamination techniques for equipment.					
Identify field decontamination techniques for personnel.					
Identify your responsibilities for radioactive material disposal and event documentation.					

#### **Incident Commander-Response Phase**

The purpose of this module is to provide you with an understanding of the actions that should be considered during the response phase of an incident involving radioactive material. This module will help you realize that a successful response involves the integration of all responding organizations and agencies.

	LE	FD	EMS	HMT	EMA
Identify the steps an IC should take at the scene of an incident involving radioactive material.					
Identify actions, hazards and other considerations that the IC should assess before allowing personnel to enter the immediate incident area that involves radioactive material.					
Identify federal agencies available to provide assistance to the IC at an incident involving radioactive material.					
Identify actions necessary for controlling access to an incident involving radioactive material.					





# Model Needs Assessment (Self-Assessment Documents)

#### **Incident Commander-Recovery Phase**

The purpose of this module is to provide you with the necessary information to successfully transition from the response phase to the recovery phase of a radiological incident.

	LE	FD	EMS	HMT	EMA
Identify actions that must be completed before transitioning to the recovery phase of an incident involving radioactive material.					
Identify issues that may be of concern during the transition from response to recovery phase.					
Identify recovery-planning issues that must be addressed by the IC.					
Identify tactical objectives the IC should consider when developing a recovery plan.					
Explain the difference between short-term and long-term recovery activities.					

#### **Public Information Officer**

The purpose of this module is to provide the Public Information Officer with the necessary information to successfully communicate to the public the events and outcomes of the incident. You may not necessarily be an expert in radiological principles so this module will inform you of the basic concepts, enabling you to more effectively communicate necessary information to the media and public, ensuring they are adequately and correctly informed during a transportation incident involving radioactive material.

	LE	FD	EMS	HMT	EMA
Identify public concerns and perceptions about incidents involving radioactive material.					
Identify basic messages that should be delivered to the media and the general public during a transportation incident involving radioactive material.					
Identify emergency public information sources available to support an incident response.					
Identify agencies that will require public information coordination during a response to an incident involving radioactive material.					



(Self-Assessment Documents)



#### **Pre-Hospital Practices**

The purpose of this module is to increase your understanding of unique aspects of prehospital patient care during a radioactive material transportation incident. This knowledge will help you, as a responder, function with confidence during incidents that involve radioactive material.

	LE	FD	EMS	HMT	EMA
Identify protective measures for responder safety.					
Demonstrate proper patient management based on acceptable medical practice.					
Identify techniques for patient transfer to medical facility.					
Demonstrate proper procedures for returning personnel, equipment, and vehicles to service.					

#### **Shipments by DOE**

The purpose of this module is to increase your knowledge of the DOE's transportation program. Having an understanding of the material being transported by DOE and how it is transported will increase your ability to quickly recognize, safely respond, and accurately relay information during an accident involving DOE owned radioactive material.

	LE	FD	EMS	HMT	EMA
Identify the types of radioactive material being transported to and from various DOE sites.					
Identify the transportation modes used by DOE to transport radioactive material.					
Identify the enhanced safety measures used by DOE.					









(Self-Assessment Documents)

#### **WIPP**

The purpose of this module is to increase your knowledge of the Waste Isolation Pilot Plant and its transportation system. Having an understanding of the material being transported to WIPP and how it is transported will increase your ability to quickly recognize, safely respond, and accurately relay information during an accident involving WIPP material.

	LE	FD	EMS	HMT	EMA
State the importance of the Waste Isolation Pilot Plant (WIPP).					
Identify large quantity transuranic waste generator sites.					
Identify waste verification techniques.					
Identify the characteristics of the waste transported to WIPP.					
Identify the packages used to transport waste to WIPP.					
Identify the enhanced safety measures used to transport waste to WIPP.					

(Self-Assessment Documents)



#### D. DISCUSSIONS AND RECOMMENDATIONS

This section of the assessment identifies recommendations or actions necessary to improve planning and training skills/capabilities for Responders (Fire, Emergency Medical Service, Hazardous Materials Teams, Law Enforcement and Emergency Management personnel). Using the results of the previous sections, describe identified weaknesses and develop recommendations that upon implementation will improve responder capabilities. Several examples are provide below:

#### **Discussion and Recommendations for Emergency Management Planning**

With the exception of an annex for transportation emergencies involving radioactive materials, the County has an Emergency Plan that addresses typical disasters/emergencies. Through the TEPP, a model annex for transportation accidents involving radiological materials was developed and has been provided to County for review and comment and eventual incorporation into the existing County Emergency Plan. Emergency Management officials have reviewed the provided model annex. This review determined that the provided model format and contents would assist the County in the development of an annex for transportation accident involving radiological materials.

Discussions with State officials indicate a willingness to also evaluate the TEPP model annex. This evaluation, including comment and revision to the TEPP model annex is on going at the time of this draft report.

Recommendation—Utilize the TEPP Model Annex for State/Local Emergency Plans to develop an Annex for Transportation Accident Involving Radiological Materials.

#### **Discussion and Recommendations for Capabilities**

The County has a Hazardous Materials Team that provides around the clock response capabilities. The team is supported by typical hazardous materials training and response equipment. Currently all members meet OSHA 1910.120 Technical Level Training Requirements. The equipment cache for radiological response should be re-evaluated. An adequate number of radiological monitoring instruments (9) is available for a radiological transportation accident. However, the instrumentation available requires calibration and should be evaluated to determine if some existing instruments could be replaced with more current model/units. Mutual Aid agreements for additional support are developed and approved by neighboring counties.

Recommendation—Re-evaluate currently available radiological monitoring equipment determine calibration needs and availability of more current model of monitoring equipment.

#### Discussion and Recommendations for Law Enforcement Training

Based on response to the assessment questions concerning existing training programs associated with transportation accidents involving radioactive materials, the following discussion and recommendations are provided.





# Model Needs Assessment (Self-Assessment Documents)

During the assessment process, discussions with Law Enforcement officials it was determined that each law enforcement recruit receives hazardous materials training as part of their initial qualifications. The hazardous materials training that each recruit receives was described by law enforcement officials very general, does include the use of the Emergency Response Guidebook. After completion of the recruitment training program, each law enforcement officer routinely recevies refresher training. However existing refresher training programs do not include specifics on responding to transportation accidents involving radioactive materials.

Based on discussion with law enforcement officials during the process it was identified that an Awareness Level Training Program for law enforcement officers would be useful. Law enforcement officials also expressed that because training hours are very limited, available training programs should be packaged in 30 minute or less delivery system (video, slides or hand outs). By developing training in this format/delivery system the training could be conducted during daily lineup activities or specially called meetings/activities.

Recommendation—Have Law Enforcement complete training modules at the Awareness Level and establish a regular refresher training cycle.

#### E. SIGNATURE PAGE

Typical Signature Page would include signatures from organizational authorities such as Police and Fire Chiefs, Emergency Management Director, State Radiation Supervisor, Hazardous Materials Team Chief, Emergency Medical Service Chief and Authority conducting the assessment.

The information included in this assessment is current and accurate to the best of each assessment team participant's knowledge.

Fire Chief	Date
Police Chief	Date
Emergency Management Director	Date
Emergency Medical Service Chief	 Date
Hazardous Materials Team Chief	Date
Conducting Authority	 Date

(Self-Assessment Documents)



#### F. **ATTACHMENTS**

This section should include a list of attachments that have been considered useful and have become part of the report. Examples of the Model Plans and Procedures can be viewed on the U.S. Department of Energy Web Site (www.em.doe.gov/otem/program.html).

#### APPENDIX A

#### Needs Assessment

This model assessment provides evaluation criteria to assist State, Tribal, or Local officials in determining responder readiness. This document will assist in identifying improvement areas within various response organizations including law enforcement, fire, emergency management, communication center, hazardous materials teams, and emergency medical services/care facilities.

#### Offsite Emergency Plan Model

A model transportation emergency plan that integrates the FEMA REP 5 guidance is available for use. The model leads a planner through step-by-step development, resulting in a FEMA-consistent emergency plan for state, local and tribal organizations. The model provides both format and content guides.

#### **Response Procedure Models**

First response organizations that do not have procedures specifically addressing response to radiological shipments will benefit from model procedures covering various response activities. The first uses a flow chart format and includes life saving, fire-fighting and radioactive materials considerations as well as Incident Command and size up guidelines. A second procedure developed is for Hazardous Materials Teams. This procedure includes site safety plan information, exposure guidelines, and forms to document response activities. The third procedure developed is a Patient Handling procedure for potentially contaminated victims. This procedure includes gross decontamination instructions, patient handling and packaging instructions. A fourth model procedure provides guidance to medical examiners/coroners in dealing with a radiologically contaminated body or human remains. And the fifth model procedure assist responders in determining an appropriate method for decontamination of responders.

#### **Tabletops/Drills/Exercises**

A manual containing seven scripted transportation scenarios has been developed. Each scenario provides a different type of transportation incident that may or may not include the release of radioactive materials. In addition to the scenarios a "Guide to Conduct of Tabletops/Drills/Exercises" was developed to accompany the materials and provide stepby-step instructions on how to use the pre-scripted scenarios and tailor them to individual needs. Other supporting documents include sample drill schedules, facilitator materials for tabletops, and a medical data base with layman's symptoms for a myriad of injuries for use by medical controllers.

